

What is claimed is:

1. A method of treating an article, comprising:
  - (a) exposing the article within a space to a concentration of chlorine dioxide of at least 5 ppm; then
  - (b) reducing the concentration of chlorine dioxide gas within the space to a positive quantity less than 5 ppm; then
  - (c) introducing additional chlorine dioxide gas into the space such that the concentration of chlorine dioxide gas within the space remains below 5 ppm.
  
2. A method of treating an article, comprising:
  - (a) exposing the article within a space to a concentration of chlorine dioxide of at least 0.3 ppm; then
  - (b) reducing the concentration of chlorine dioxide gas within the space to a positive quantity less than 0.3 ppm; then
  - (c) introducing additional chlorine dioxide gas into the space such that the concentration of chlorine dioxide gas within the space remains below 0.3 ppm.
  
3. A method of treating an article, comprising:
  - (a) exposing the article within a space to a concentration of chlorine dioxide of at least 0.1 ppm; then
  - (b) reducing the concentration of chlorine dioxide gas within the space to a positive quantity less than 0.1 ppm; then
  - (c) introducing additional chlorine dioxide gas into the space such that the concentration of chlorine dioxide gas within the space remains below 0.1 ppm.

4. A method of treating an article, comprising:
  - (a) exposing the article within a space to a concentration of chlorine dioxide equal to or greater than the IDLH; then
  - (b) reducing the concentration of chlorine dioxide gas within the space to a positive quantity less than the IDLH; then
  - (c) introducing additional chlorine dioxide gas into the space such that the concentration of chlorine dioxide gas within the space remains below the IDLH.
  
5. A method of treating an article, comprising:
  - (a) exposing the article within a space to a concentration of chlorine dioxide equal to or greater than the STEL; then
  - (b) reducing the concentration of chlorine dioxide gas within the space to a positive quantity less than the STEL; then
  - (c) introducing additional chlorine dioxide gas into the space such that the concentration of chlorine dioxide gas within the space remains below the STEL.
  
6. A method of treating an article, comprising:
  - (a) exposing the article within a space to a concentration of chlorine dioxide equal to or greater than the TLV; then
  - (b) reducing the concentration of chlorine dioxide gas within the space to a positive quantity less than the TLV; then
  - (c) introducing additional chlorine dioxide gas into the space such that the concentration of chlorine dioxide gas within the space remains below the TLV.
  
7. The method of claim 1, wherein the article is a harvested agricultural product.